

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application.

**Listing of the Claims:**

1-8 (cancelled)

9. (currently amended) A procedure for manufacturing boehmitic and/or pseudo-boehmitic alumina by precipitating basic and/or acidic aluminum salts, comprising precipitating said salts from an aqueous medium containing the following as the crystal nuclei:

(a) 0.1 to 5 % w/w of alumina hydrates and/or aluminas relative to the precipitated alumina hydrates and computed as  $\text{Al}_2\text{O}_3$ , wherein the crystal nuclei (a) in the medium have an average diameter of 20 to 150 nm.

10. (currently amended) A procedure for manufacturing alumina hydrates by precipitating basic and/or acidic aluminum salts, comprising precipitating said salts from an aqueous medium containing the following as the crystal nuclei:

(b) 0.1 to 5% w/w of organic polymers/oligomers relative to the precipitated alumina hydrates and computed as  $\text{Al}_2\text{O}_3$ , which form latices in the medium, wherein the crystal nuclei (b) in the medium have an average diameter of 12 to 250 nm.

11. (original) A procedure according to any one of claims 9 or 10 wherein the average diameter is from 50 to 100 nm.

18. (original) A procedure according to claim 17 wherein the pH value is from 6 to 8.
19. (currently amended) A boehmitic alumina and/or pseudo-boehmitic alumina with a pore volume of 1.25 to 1.6 ml/g and an average pore radius of 6 to 12 nm, each relative to a determination based on pore radii of from greater than 0 to 100 nm, at a crystallite size, determined on the 120 reflex, of 3 to 5 nm, manufactured according to a procedure of any one of claims 9 or 10.
20. (currently amended) A procedure for manufacturing boehmitic and/or pseudo-boehmitic alumina by precipitating basic and/or acidic aluminum salts comprising precipitating said salts from an aqueous medium containing the following crystal nuclei:
- (a) 0.1 to 5% w/w of alumina hydrates and/or aluminas relative to the precipitating alumina hydrates and computed as  $\text{Al}_2\text{O}_3$ , wherein the crystal nuclei (a) in the medium have an average diameter of 20 to 150 nm and,
  - (b) 0.1 to 5% w/w of organic polymers/oligomers relative to the precipitated alumina hydrates and computed as  $\text{Al}_2\text{O}_3$ , which form lattices in the medium, wherein the crystal nuclei (b) in the medium have an average diameter of 12 to 250 nm.
21. (new) A procedure for manufacturing alumina hydrates by precipitating basic and/or acidic aluminum salts, comprising precipitating said salts from an aqueous medium containing the following as the crystal nuclei:

0.1 to 5% w/w organic polymers/oligomers relative to the precipitated alumina hydrates and computed as  $Al_2O_3$ , which form latices in the medium, wherein the crystal nuclei in the medium have an average diameter of 12 to 250 nm,

wherein the organic polymers/oligomers are selected from the group consisting of: polyacrylic acids, polymethacrylic acid, polyacrylates, polystyrenes, polyvinyl acetates, polyvinyl versalates and their mixtures or copolymers.

22. (new) A procedure according to Claim 21, wherein the crystal nuclei are prepared in an aqueous, acidic solution and one or more basic aluminum salts and one or more acidic aluminum salts are jointly added.